

LDWSF
12.3.54 v6
09/02/86

Quality Assurance Plan

86-X-4-4 Investigation*

ESD, EPA Region 10
1200 6th Avenue
Seattle, Wa. 98101

Approvals:

Project Officer: *Robert J. Jordan* Date 9/2/86
QA Officer: *B. J. Jordan* Date 9/2/86
Supervisor: *Lane Boyer* Date 9/2/86

* The project name is not disclosed at this time because it is part of a criminal investigation.

USEPA SF



1316393

1. Project Organization and Responsibility

The following is a list of key project personnel and their responsibilities:

Organization Manager	Bill Schmidt, ESD; Gerd Hatwig, OCI
Project Officer	Dan Bodien
QA Officer	Barry Towns
Field Operation	Jim Hileman
Laboratory Operation	Mike Johnston
Data Quality Review	Bob Reick
System/Performance Audit	N/A

2. Project Description

A. Objective and Scope: A concrete plant has been observed discharging liquids and solids to a river. The objective of this investigation is to collect samples of solid and liquid waste located at this facility.

B. Schedule of Tasks and Milestones:

Activity/Date	>	>	>	>	>	>	>
Sample Collection>	9/3/86						
Samples to Lab>	9/4/86						
Analyses Complete>		9/15/86					
Data Analysis>		9/30/86					
Survey Report>							

C. Data Usage: Will be used to support criminal investigation.

D. Monitoring network/sample collection design and rationale:
Approximately 5 solid and 10 liquid samples will be collected.
Sample locations will be determined on site.

# Sampl.	Sample Matrix	Collection Frequency	Analytical Parameter	Type of Sample Container	Sample Preservation	Sample Holding Time	Analytical Detection Limit
1. 10	liquid	1	***	1 qt cubi			
		***	TDS		Ice		mg/l
			SS		Ice		mg/l
			TS		Ice		mg/l
			Turbidity		Ice		NTU
			Total Alkalinity		Ice		mg/l
			pH		Ice		
			Conductivity		Ice		
2. 5	Solid	1	***	8oz glass			

3. Data Quality Objectives

- A. Precision and accuracy protocols/limits will be determined by the EPA Region 10 Laboratory in accordance with recommended protocols for establishing data quality indicators.
 - B. Data Representativeness: The samples will be grab samples to represent one point and time.
 - C. Data Comparability: Data will be reported according to established Regional Laboratory data reporting protocols. Samples will be analyzed according to approved analytical procedures.
 - D. Data Completeness: All samples collected are to be analyzed with appropriate supportive documentation.
4. Sampling Procedures: (Including QC Checks) The samples will be placed into a clean sample container obtained from the EPA lab, labeled and sealed, and placed into an ice chest.
- Cubitainers should be held by hand when collecting samples. Cubitainers should be rinsed in the waste stream that is to be sampled prior to sample collection. Samples should be taken by pointing the neck of the cubitainer upstream and submerging below the surface of the water. If this requires the sampler to enter the stream, the sampler should be downstream of the sample location.
5. Sample Custody Procedures: The samples will be in the custody of EPA personnel at all times. EPA Region 10 chain of custody forms and procedures will be used.
 6. Calibration Procedures and Preventive Maintenance: No field calibration will be done. The standard operating protocols for the Region 10 lab will be followed.
 7. Analytical Methods (Including QC Checks) EPA approved methods and associated QC procedures will be followed.

8. Documentation, Data Reduction and Reporting
 - A. Documentation: A field log notebook, photos and the EPA field sample data sheet will be used to document the sampling activities.
 - B. Data Reduction and Reporting The Regional lab will be responsible for data validation and entry into the laboratory data management system.
9. Data Assessment: The Field and Technical Support Branch of ESD will provide an assessment of the data.
10. Performance/System Audits: routine performance audits results for the Regional Lab are on record with RQAO. No system audit is planned for this investigation.
11. Corrective Action: N/A
12. Reports: F.O.T.S.B. will prepare a report summarizing the sampling investigation including procedures, results and supporting dicumentation.
13. Safety (Optional): Rubber gloves will be worn by samplers.